



University of Minnesota

## POSTDOCTORAL RESEARCHER



Optical Imaging & Brain Science  
Medical Discovery Team

The Smith Lab at the University of Minnesota seeks a talented, creative and highly motivated scientist to join the lab as a postdoctoral researcher.

The Smith Lab uses a combination of multiphoton and wide-field imaging, together with optogenetic manipulations of network activity, to investigate the structure and function of the large-scale cortical networks underlying sensory processing. Ongoing projects involve the measurement and manipulation of identified cell types through patterned optogenetic stimulation in intact networks *in vivo*, as well as the longitudinal imaging of network dynamics across early development. Additional information on the lab is available at [smithneurolab.org](http://smithneurolab.org).

The Smith Lab is part of the newly-formed Optical Imaging and Brain Sciences Medical Discovery Team (MDT), a major initiative established by the University of Minnesota to promote the development and application of cutting-edge imaging technologies. The MDT is currently home to three laboratories, with additional expansion underway, and provides an outstanding environment for collaboration.

The Smith Lab is a member of the nationally-ranked Department of Neuroscience, which is home to multiple world-class laboratories and is also undergoing significant expansion. The University of Minnesota has extensive expertise across many departments, including Physics, Mechanical Engineering, and Computer Science and is a world-leader in functional Magnetic Resonance Imaging.

The University is located in the heart of Minneapolis, recently ranked as one of the 10 Best Cities to Live in America. Minneapolis features a vibrant arts and music scene, exceptional restaurants, and multiple professional sports teams, together with an extensive collection of parks and lakes which provide opportunities for year-round outdoor activities.

### **Required Qualifications:**

Recent PhD or MD/PhD in Neuroscience, Biology, Biomedical Engineering, or related field.

Demonstrated record of research accomplishments.

Able to work independently and as part of a team.

### Preferred:

Experience in multiphoton imaging is strongly preferred, but not required.

Experience with *in vivo* recordings.

Experience and familiarity with scientific and statistical software (e.g. MATLAB, Python).

Interested applicants should send a CV, a brief statement of research accomplishments and future interests, and the names of 3 references to Dr. Gordon Smith at [gbsmith@umn.edu](mailto:gbsmith@umn.edu).